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CIA-RDP86-00513R001447010014-9

- AUTHORS:

(Samoylovich, M. A., Barkan, A. B.,

64-58-2-10/16

TITLE:

Ravdel', B. A.
The Selection of Rational Feeding Automation for Pyrites

Furnaces (Vybor ratsional noy skhemy avtomatizatsii pita=

niya kolchedannykh pechey)

PERIODICAL:

Khimicheskaya Promyshlennost¹, 1958, Nr 2, pp. 49-50 (USSR)

ABSTRACT:

In the investigations for obtaining the necessary gas concentration and temperature at the output of the furnace it
was found that a complete read justment of feeding is necessary. The following demands must be met by the feeding apparatus to be constructed: It must be standardized and produced in series. A widely variable filling interval for pyrite
must exist which operates without using the dosing apparatus
not acknowledged by industry. The plant must be capable of
operating in a very dusty atmosphere and is to have a minimum number of contact elements in its regulation scheme.
The constructions in use at present as well as a design
by the Giprotsvetmet Institute did not meet these demands.
In the Giprokhim branch consequently a scheme was elaborated in which the regulation system has practically no con-

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The Selection of Rational Feeding Automation for Pyrites Furnaces

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tact elements at all. From the mentioned schematic representations can be seen that the feeding mechanism is operated by a P N Z-290-type motor which has a standard magnetic contactor D N -1122-12A2 for connection. The regulation apparatus is an electropotentiometer with a pneumatic isodromic system arrangement of the E P D -32, type, while the a theremocouple of the TXA-146-type or T K C-4 D - type with a special arrangement for gas purification is used corresponding to the conditions of regulation. A servo-motor of the K_x-4201

-type permanently connected with a rheostat of the PB-18-L -type serves as operating element. The latter is connected with the field winding of the motor. The d.c. source for the motor as well as for the selenium rectifier of the type ABC-100-53, connected according to the three-phase scheme, are directly connected with the 380/220 V supply. An additional rheostat of the type PB-18-L serves for the automatic regulation of the shunt resistance. Besides the cased motor and the control buttons the whole systems in the a casing (figure). The use of the isodromic system arrangements is

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explained by the few intermediate apparatus and the absence of contact elements; moreover this type of regulator has already proved valuable in the automation of sulfuric acid industry. The single parts of the described plant are produced in series and can easily be exchanged and assembled. The scheme of arrangement can be used for the automatic dosing in other technologic processes: then the regulation can be adjusted according to the specific weight, the concentration of hydrogen ions etc.

There are 2 figures and 4 references, all of which are Soviet.

AVAILABLE:

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1. Furnaces--Operation 2. Pyrites--Handling 3. Furnace equipment --Control systems 4. Control systems--Operation

Card 3/3

SAMOYIOVICH, M.A.; BARKAN, A.B.; RAVDEL', B.A.

Choosing an efficient system of automatic feeding of pyrite furnaces.

Khim. prom. no.2:113-114 Mr '58.

(Pyrites) (Smelting furnaces)

L 10573-65 EWT(m)/EWP(e)/EWP(b) Pq-4 AFWL/RAEM(c)/AS(mp)-2/ASD(a)-5/ RAEM(1)/SSD/ESD(gs)/ESD(t)/IJP(c) JD/WH

ACCESSION NR: AP4044278

8/0192/64/005/004/0630/0631

AUTHOR: Novozhilov, A. I.; Samoylovich, M. I.; Tsinober, L. I.

TITLE: Short lived paramagnetic centers in germanium doped quartz

SOURCE: Zhurnal strukturnoy khimii, v. 5, no. 4, 1964, 630-631

TOPIC TAGS: quartz, electron paramagnetic resonance, germanium, unpaired electron, x ray irradiation, Y ray irradiation, germanium doped quartz

ABSTRACT: Germanium coped quartz, irradiated with x-rays or Y-rays produces an EPR spectrum due to unpaired electrons. In addition to EPR spectrum, resulting from the alkali centers a spectrum is observed which consists of six lines. Their intensity decreases with time. When the temperature of the specimen is lowered to 77 K it is possible to resolve the fine structure consisting of 10 lines, which may be explained by the interaction of electron from an alkali center with the nucleus of Ge⁷³ isotope. Since splitting is much less than for free germanium atom in the ground state one might conclude that the captured

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ACCESSION NR: AP4944278

electron spends the majority of time near the oxygen atoms which surround germanium ion. In this work a study was made of the amplitude of the EPR signal as a function of irradiation dose. In the course of 24 hours the amplitude decreases by a factor of 2. The EPR spectrum completely disappears due to heating of the sample to 250C and also a fter u.v. irradiation. It was found that the rate of disintegration of alkali centers is significantly dependent on the temperature. If at room temperature complete decomposition of centers required several days, at 523 K it requires only several minutes and at 77 K decomposition does not take place at all. Two probable mechanisms are proposed for decomposition of these centers: (1) recombination of electrons with holes which are produced during irradiation of crystals; (2) transition of unstable centers into stable alkali centers due to diffusion of the compensating alkali metal ions. In addition to the above two spectra another spectrum is detected in germanium doped quartz at 77 K. It has no hyperfine structure with g₁₁= 1.993±0.002 and g₁=1.996±0.002. Orig. art. has: 3 figures.

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy institut sinteza mineral'

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Pi-4 IJP(c) WW/GG/AT/WH

ACCESSION NR: AP5016915 UR/O

UR/0192/65/006/003/0461/0465 538.113

AUTHOR: Samoylovich, M. I.; Novozhilov, A. I.

TITLE: Electron spin resonance in irradiated topaz 15

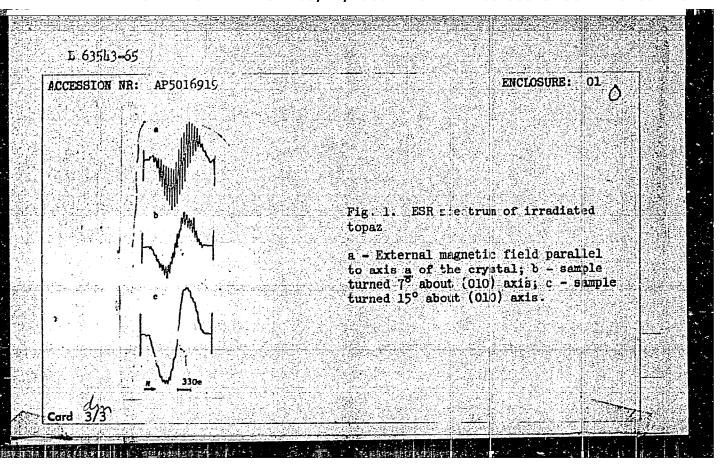
SOURCE: Zhurnal strukturnoy khimii, v. 6, no. 3, 1965, 461 - 466

TOPIC TAGS: topaz, spectrum spin resonance, ESR spectrum, irradiated topaz

ABSTRACT: Several varieties of Volyn topaz were studied by means of electron spin resonance spectra at 77 and 295K. In all natural blown topaz varieties as well as in samples irradiated with K or gamma rays, the ESR spectrum shows a broad isotropic line with g = 1.982 ± 0.002 and half-width at 75° with a complex hyperfine structure HFS. The intensity and number of the HFS lines depend on the orientation of the crystal in the magnetic field (see Fig I of the Enclosure). This spectrum is related to the brown color produced by irradiating colorless samples. The spectral line intensity and optical density at first increase symbatically in proportion to the dose, then become saturated at total doses of about 10° roentgen. Both the color and ESR spectrum disappear when the samples are

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heated to 300C. The observed of the mechanism of W. C. Ho conclusion, the authors expression-Grum-Grzhimaylo, and Yu. V.	lton and H. Blum (Phys. Rev	., 125, 89, 1962). In A. Shaposhnikov, S. V. Opaz samples." Orig. art	
has: 2 figures and 2 formula			08]
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syr'ya, Aleksandrov (All-Uni Inorganic Raw Materials)	on Scientific Research Inst	itute for the Synthesis o	<u>E</u>
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63617-65 EWI(1)/EWI(m)/EPF(c)/I/EWP(t)/EWP(b)/EWA(c) Pi-4 IJP(c) JE/WW/JG/GG ACCESSION NR: AP5016920 UR/0192/65/006/003/0464/0465 538, 113 32 AUTHOR: Kurkin, I. N.; Potkin, L. I.; Samoylovich, M. I.; Shekun, L. Ya. TITLE: Electron spin resonance of neodymium in scheelite calcium molybdate structures SOURCE: Zhurnal strukturnoy khimii, v. 6, no. 3, 1965, 464-465 TOPIC TAGS: neodymium, powellite, scheelite, electron spin resonance, ESR spectrum, calcium molybdate, Stark effect ABSTRACT: ESR spectra of neodymium incorporated in single crystals of artificial CaMoO4 (powellita) were recorded at 4.2K at a frequency of about 10 KMc. The angular dependence of the spectrum showed that all Nd3+ ions are magnetically equivalent. The neodymium content of CaMoO4 crystals was approximately two orders of magnitude less than its amount in the initial mixture. The line width was about 3 Oe. No paramagnetic impurities other than Nd³⁺ were found. The position of the ESR lines of Nd³⁺ is described by the usual axial spin Hamiltonian, whose constants are tabulated with corresponding values for CaWO4 and PbMoO4. When Pb is substituted for Ca, the anionic MoO4 groups being the same, the g tensor undergoes a considerable change (due to the change in g_{11}). Conversely, the substitution of MoO_4 for WO_4 , the divalent cation Card 1/2

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ACCESSION NR: AP5016920

being the same, causes very little change in the g tensor. It is concluded that the paramagnetic centers studied were formed as a result of the substitution of neodymium for Ca and Pb ions. The authors express the hope that a systematization of the ESR data on impurity ions in scheelites will aid in the formulation of a theory for the crystalline Stark effect in these structures. Orig. art. has: 1 table.

ASSOCIATION: Kazanskiy gosudaratvennyy universitet (Kazan State University)

SUBMITTED: 28Oct64

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SUB CODE: SS, NP

NO REF SOV: 003

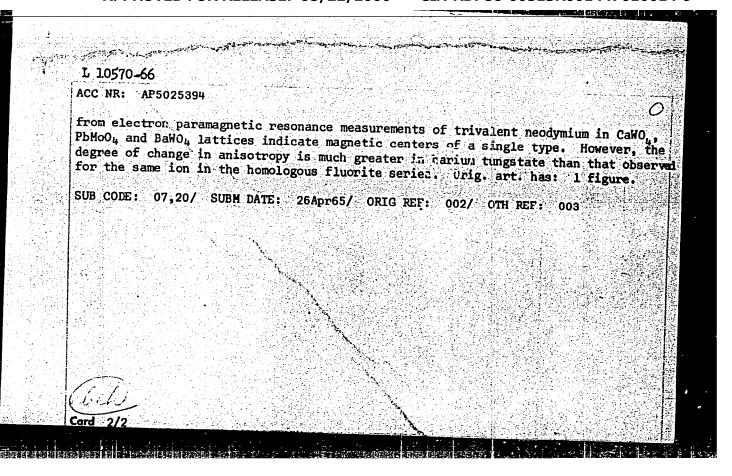
OTHER: 002

SAMOYLOVICH, M.I.; NOVOZHILOV, A.I.

Electron paramagnetic resonance in an irradiated topaz. Zhur. struk. khim. 6 no.3:461-463 My-Ju '65. (MIRA 18:8)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut sinteza mineral'nogo syr'ya g. Aleksandrov.

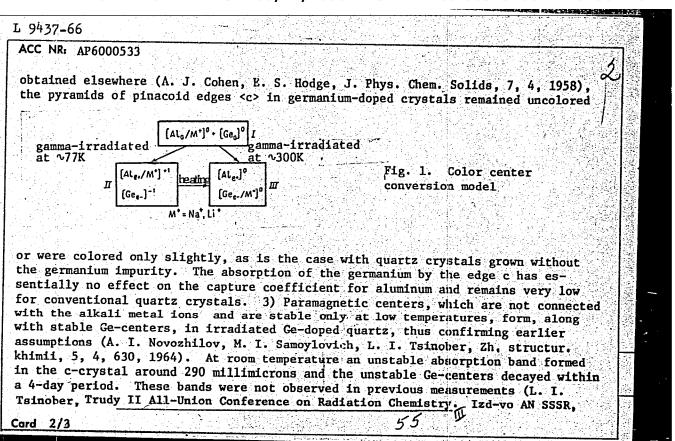
-m/1 \ /EWT(m)/ENP(t)/EMP(b) LJP(c) JD/WW/JG/GQ SOURCE CODE: UR/0181/65/007/010/3105/3106 Samoylovich, M. I.; Shekur;
L 10570-66 EWT(17/2013) ACC NR: AP5025394	Samoylovich, M. 1. Potkin, L. I.: Samoylovich, M. 1.
AUTHOR: Antipin, A. A.	44 35 Lenin (Kazinskiy gosudarstvenin)
UNU - reitet)	中 trivalent 12727
TITLE: Electron parama	resity im. V. I. UI'yanov Lo. 65 Agnetic resonance of trivalent neodymium in barium tungs tate 1. To a serious compound tungs tate 2. To a serious compound tungs tate, EPR spectrum, crystal, magnetic 2. barium compound, tungstate, EPR spectrum, crystal, magnetic 3. barium compound, tungstate, EPR spectrum, crystal, magnetic
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ABSTRACT: The one of the spectral land on the spectral land on the spectral land on the spectral of the spectr	s studied electron paramagners were grown from a magnetic field neodymium. The crystals were grown in these crystals are neodymium. The crystals were grown from a magnetic field ines for the trivalent lanthanon ion in these crystals are neodymium. The crystals are neodymium. The crystals were grown from a magnetic field in the crystals are neodymium. The crystals were grown from a magnetic field in the crystals are neodymium. The crystals were grown from a magnetic field in these crystals are neodymium. The crystals were grown from a magnetic field in the crystals are neodymium. The crystals were grown from a magnetic field in the crystals are neodymium. The crystals are neodymium. The crystals are neodymium. The crystals are neodymium and the crystals are neodymium. The crystals are neodymium. The crystals are neodymium and the crystals are neodymium. The crystals are neodymium and the crystals are neodymium and the crystals are neodymium. The crystals are neodymium and the
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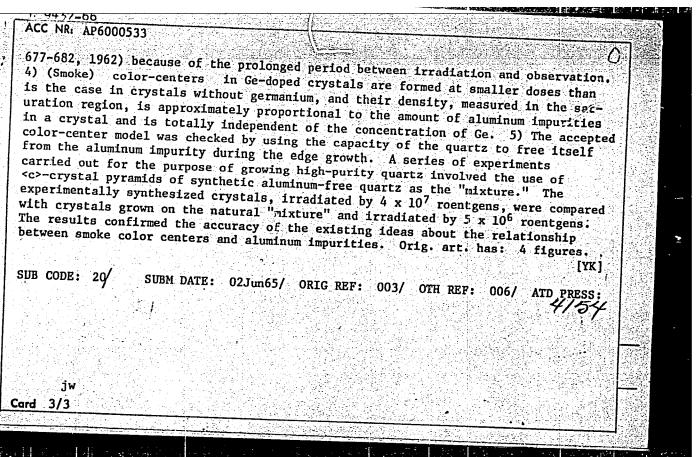


	L 15731-66 EWT(m)/T/EWP(t)/EWP(b) IJP(c) JD/JG
	ACC NR: AP6000892 SOURCE CODE: UR/0181/65/007/012/3688/3688
	AUTHORS: Dernov-Pegarev, V. F.; Stepanov, V. G.; Zaripov, M. M.;
	ORG: <u>Kazan' State University im. V. I. Ul'yanov-Lenin</u> (Kazanskiy 15
	TITLE: Investigation of EPR of Mn ²⁺ ions in single crystal ZnMoO _H B
	SOURCE: Fizika tverdogo tela, v. 7, no. 12, 1965, 3688
	TOPIC TAGS: zinc compound, molybdenum compound, epr spectrum, angular distribution, paramagnetic ion, spectral line, single crystal
	ABSTRACT: The ZnMoO, were grown by the hydrothermal synthesis method
	spectroscope at 8 mm wavelength disabored amperature with a video
2 1	valent manganese and weaker lines of Cr ions. The Cr spectrum could not be investigated in detail because its lines overlapped the
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crysta] so that the rho tion of obtaine	tense lines of Mn ²⁺ , which contaminated the crystals. The dependence of EPR spectrum indicates that the symmetry of the line field acting on the Mn ²⁺ ions is not higher than rhombic, the spectrum can be described with the spin Hamiltonian of mblc system, for which the constants are given. The orientathe z axis of Mn ²⁺ in ZnMoO ₄ coincides with the orientation of for Mn ²⁺ in CdWO ₄ . Authors thank Ye. A. Pobedimskaya for lometric measurements. Orig. art. has: 1 formula.	
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SUB COD	E:\ 07/ SUBM DATE: 14Ju165/ OTH REF: 001	
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ACC NR. AP6000533 SOURCE CODE: UR/0070/65/010/006/0879/0883 AUTHOR: Tsinober, L. J.; Samoylovich, M. I.; Gordiyenko, L. A. / 5.7 ORG: none TITLE: Certain properties of smoke-tinting in aluminum— and germanium—doped quartz crystals b SOURCE: Kristallografiya, v. 10, no. 7, 1965, 879-883 TOPIC TAGS: quartz, aluminum, germanium, smoked quartz, color center, quartz crystal, crystal growing ABSTRACT: Certain special properties of smoked color centers in aluminum— and germanium—doped synthetic quartz crystals irradiated with ionizing radiation are discussed on the basis of a system for the interaction between the centers of two dopants proposed elsewhere (A. Halperin, J. E. Ralph, J. Chem. Phys., 39, 1, two dopants proposed elsewhere (A. Halperin, J. E. Ralph, J. Chem. Phys., 39, 1, 1963; J. H. Mackey, J. Chem. Phys. 39, 1, 74-83,1963). The center conversion model shown in Fig. 1 was used in the study. The experimental results, which confirmed the assumptions of Halperin, Ralph, and Mackey, indicate: the following. Only the introduction of a germanium impurity into the matrix ensures the formation of a sufficiently high concentration of potential (smoke) color centers in the germanium—absorbing aluminum pyramids <r> Cord 1/3 UDC: 548.5:535.32</r>	
AUTHOR: Tsinober, L. I.; Samoylovich, M. I.; Gordiyenko, L. A. / 53 ORG: none TITLE: Certain properties of smoke-tinting in aluminum— and germanium—doped quartz crystals SOURCE: Kristallografiya, v. 10, no. 1, 1965, 879-883 TOPIC TAGS: quartz, aluminum, germanium, smoked quartz, color center, quartz crystal, crystal growing ABSTRACT: Certain special properties of smoked color centers in aluminum— and germanium—doped synthetic quartz crystals irradiated with ionizing radiation are discussed on the basis of a system for the interaction between the centers of two dopants proposed elsewhere (A. Halperin, J. E. Ralph, J. Chem. Phys., 39, 1, 63-73, 1963; J. H. Mackey, J. Chem. Phys. 39, 1, 74-83,1963). The center conversion model shown in Fig. 1 was used in the study. The experimental results, which confirmed the assumptions of Halperin, Ralph, and Mackey, indicate the following of the crystals are grown from a natural "mixture" (1.e., aluminum—containing quartz), the introduction of a germanium impurity into the matrix ensures the formation of a sufficiently high concentration of potential (smoke) color centers in the germanium—absorbing aluminum pyramids <r> Mackey</r>	9437-66 EWT(m)/EWP(b)/EWP(t) IJP(c) JD/WH
AUTHOR: Tsinober, L. I.; Samoylovich, M. I.; Gordiyenko, L. A. / 53 ORG: none TITLE: Certain properties of smoke-tinting in aluminum— and germanium—doped quartz crystals SOURCE: Kristallografiya, v. 10, no. , 1965, 879-883 TOPIC TAGS: quartz, aluminum, germanium, smoked quartz, color center, quartz crystal, crystal growing ABSTRACT: Certain special properties of smoked color centers in aluminum— and germanium—doped synthetic quartz crystals irradiated with ionizing radiation are discussed on the basis of a system for the interaction between the centers of two dopants proposed elsewhere (A. Halperin, J. E. Ralph, J. Chem. Phys., 39, 1, 63-73, 1963; J. H. Mackey, J. Chem. Phys. 39, 1, 74-83,1963). The center conversion model shown in Fig. 1 was used in the study. The experimental results, which confirmed the assumptions of Halperin, Ralph, and Mackey, indicate the following. 1) If the crystals are grown from a natural "mixture" (i.e., aluminum—containing quartz), the introduction of a germanium impurity into the matrix ensures the formation of a sufficiently high concentration of potential (smoke) color centers in the germanium—absorbing aluminum pyramids <r> Mackey</r>	SUIRLE CODE. ON COLUMN HE ALTER SOLUTION
TITLE: Certain properties of smoke-tinting in aluminum— and germanium—doped quartz crystals SOURCE: Kristallografiya, v. 10, no. , 1965, 879-883 TOPIC TAGS: quartz, aluminum, germanium, smoked quartz, color center, quartz crystal, crystal growing ABSTRACT: Certain special properties of smoked color centers in aluminum— and germanium—doped synthetic quartz crystals irradiated with ionizing radiation are discussed on the basis of a system for the interaction between the centers of two dopants proposed elsewhere (A. Halperin, J. E. Ralph, J. Chem. Phys., 39, 1, 63-73, 1963; J. H. Mackey, J. Chem. Phys. 39, 1, 74-83,1963). The center conversion model shown in Fig. 1 was used in the study. The experimental results, which confirmed the assumptions of Halperin, Ralph, and Mackey, indicate the following. 1) If the crystals are grown from a natural "mixture" (i.e., aluminum—containing quartz), the introduction of a germanium impurity into the matrix ensures the formation of a sufficiently high concentration of potential (smoke) color centers in the germanium—absorbing aluminum pyramids <r> Mackey</r>	JTHOR: Tsinober, L. J.; Samoylovich, M. I.; Gordiyenko, L. A. / 53
SOURCE: Kristallografiya, v. 10, no., 1965, 879-883 TOPIC TAGS: quartz, aluminum, germanium, smoked quartz, color center, quartz crystal, crystal growing ABSTRACT: Certain special properties of smoked color centers in aluminum— and germanium—doped synthetic quartz crystals irradiated with ionizing radiation are discussed on the basis of a system for the interaction between the centers of two dopants proposed elsewhere (A. Halperin, J. E. Ralph, J. Chem. Phys., 39, 1, 63-73, 1963; J. H. Mackey, J. Chem. Phys. 39, 1, 74-83,1963). The center conversion model shown in Fig. 1 was used in the study. The experimental results, which confirmed the assumptions of Halperin, Ralph, and Mackey, indicate: the following. 1) If the crystals are grown from a natural "mixture" (i.e., aluminum—containing quartz), the introduction of a germanium impurity into the matrix ensures the formation of a sufficiently high concentration of potential (smoke) color centers in the germanium—absorbing aluminum pyramids <r> MDC: 5/8.5:535.32</r>	RG: none - ^
TOPIC TAGS: quartz, aluminum, germanium, smoked quartz, color center, quartz crystal, crystal growing ABSTRACT: Certain special properties of smoked color centers in aluminum— and germanium—doped synthetic quartz crystals irradiated with ionizing radiation are discussed on the basis of a system for the interaction between the centers of two dopants proposed elsewhere (A. Halperin, J. E. Ralph, J. Chem. Phys., 39, 1, 63-73, 1963; J. H. Mackey, J. Chem. Phys. 39, 1, 74-83,1963). The center conversion model shown in Fig. 1 was used in the study. The experimental results, which confirmed the assumptions of Halperin, Ralph, and Mackey, indicate the following. 1) If the crystals are grown from a natural "mixture" (i.e., aluminum—containing quartz), the introduction of a germanium impurity into the matrix ensures the formation of a sufficiently high concentration of potential (smoke) color centers in the germanium—absorbing aluminum pyramids <r> ABSTRACT: Certain special growing aluminum, smoked quartz, color centers in aluminum—and properties of smoked color centers of smoked color centers in the germanium—absorbing aluminum pyramids <r> ABSTRACT: Certain special growing aluminum, smoked quartz, color centers in aluminum—and properties of smoked color centers of smoked color centers in the second color centers in the germanium—absorbing aluminum pyramids <r></r> ABSTRACT: Certain special growing aluminum pyramidum pyramidum quartz, color centers in aluminum—and properties of smoked color centers in the second color centers in the second color centers in the second color centers in the germanium—absorbing aluminum pyramidum color centers in the second colo</r></r>	ITLE: Certain properties of smoke-tinting in <u>aluminum</u> - and <u>germanium</u> -aopeu uartz crystals
TOPIC TAGS: quartz, aluminum, germanium, smoked quartz, color center, quartz crystal, crystal growing ABSTRACT: Certain special properties of smoked color centers in aluminum— and germanium—doped synthetic quartz crystals irradiated with ionizing radiation are discussed on the basis of a system for the interaction between the centers of two dopants proposed elsewhere (A. Halperin, J. E. Ralph, J. Chem. Phys., 39, 1, 63-73, 1963; J. H. Mackey, J. Chem. Phys. 39, 1, 74-83,1963). The center conversion model shown in Fig. 1 was used in the study. The experimental results, which confirmed the assumptions of Halperin, Ralph, and Mackey, indicate the following. 1) If the crystals are grown from a natural "mixture" (i.e., aluminum—containing quartz), the introduction of a germanium impurity into the matrix ensures the formation of a sufficiently high concentration of potential (smoke) color centers in the germanium—absorbing aluminum pyramids <r> ABSTRACT: Certain special growing aluminum, smoked quartz, color centers in aluminum—and properties of smoked color centers of smoked color centers in the germanium—absorbing aluminum pyramids <r> ABSTRACT: Certain special growing aluminum, smoked quartz, color centers in aluminum—and properties of smoked color centers in the properties of smoked color centers in the germanium—absorbing aluminum pyramids <ra> ABSTRACT: Certain special growing aluminum pyramidum quartz, color centers in aluminum—and properties of smoked color centers in the properties of smoked color centers in the center of smoked pyramidum pyramidum</ra></r></r>	OURCE: Kristallografiya, v. 10, no.;, 1965, 879-883
ABSTRACT: Certain special properties of smoked color centers in aluminum—and germanium—doped synthetic quartz crystals irradiated with ionizing radiation are discussed on the basis of a system for the interaction between the centers of two dopants proposed elsewhere (A. Halperin, J. E. Ralph, J. Chem. Phys., 39, 1, two dopants proposed elsewhere (A. Halperin, J. E. Ralph, J. Chem. Phys., 39, 1, 74-83,1963). The center conversion 63-73, 1963; J. H. Mackey, J. Chem. Phys. 39, 1, 74-83,1963). The center conversion model shown in Fig. 1 was used in the study. The experimental results, which confirmed the assumptions of Halperin, Ralph, and Mackey, indicate! the following. 1) If the crystals are grown from a natural "mixture" (i.e., aluminum—containing quartz), the introduction of a germanium impurity into the matrix ensures the formation of a sufficiently high concentration of potential (smoke) color centers in the germanium—absorbing aluminum pyramids <r> All Contrary to results 10 10 10 10 10 10 10 1</r>	OPIC TAGS: quartz, aluminum, germanium, smoked quartz, color center, quartz rystal, crystal growing
100. 548 5:535.32	BSTRACT: Certain special properties of smoked color centers in aluminum—and ermanium—doped synthetic quartz crystals irradiated with ionizing radiation are discussed on the basis of a system for the interaction between the centers of wo dopants proposed elsewhere (A. Halperin, J. E. Ralph, J. Chem. Phys., 39, 1, 3-73, 1963; J. H. Mackey, J. Chem. Phys. 39, 1, 74-83,1963). The center conversion dodel shown in Fig. 1 was used in the study. The experimental results, which confirmed the assumptions of Halperin, Ralph, and Mackey, indicate the following. If the crystals are grown from a natural "mixture" (i.e., aluminum—containing that the introduction of a germanium impurity into the matrix ensures the formulartz), the introduction of a germanium impurity into the matrix ensures the formulartz).
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EWI(m)/T/EWP(t)/ETI LIP(c) ID/IG SOURCE CODE: UR/0192/66/007/001/0109/0110 ACC NR AP6020384 AUTHOR: Samoylovich, M. I.; Novozhilov, A. I.; Dernov-Pegarev, V. F.; Potkin, L. I. ORG: All-Union Scientific Research Institute of Synthesis of Mineral Raw Materials, Aleksandrov (Vsesoyuznyy nauchno-issledovatel'skiy institut sinteza mineral'nogo syr'ya) TITIE: Electron spin resonance of Mn2+ in molybdates of scheelite structure SOURCE: Zhurnal strukturnoy khimii, v. 7, no. 1, 1966, 109-110 TOPIC TAGS: manganese, EPR spectrum, molybdate, calcium compound, cadmium compound ABSTRACT: The ESR spectrum of Mn2+ was studied in single crystals of artificial Callo Q₄ and CdMoQ₄ (both of scheelite structure) at 9.4 Mc at from temperature. Some measurements were made at the temperature of liquid nitrogen. The spin-Hamiltonian constants describing the ESR spectra of Mn²⁺ in these compounds are tabulated, and compared with those for scheelite. It is noted that the replacement of the anionic groups has practically no effect on the g factor; however, the latter does change slightly when the cations are replaced, the anion being the same. The spin-Hamiltonian constant describing the effect of the intracrystalline field of cubic symmetry changes with the anionic groups, but remains virtually unchanged when the cations are replaced. Constant b2, which describes the effect of the intracrystalline field of tetragonal symmetry (the axis of symmetry coincides with the z axis), changes markedly TDC: 538.113 Card 1/2

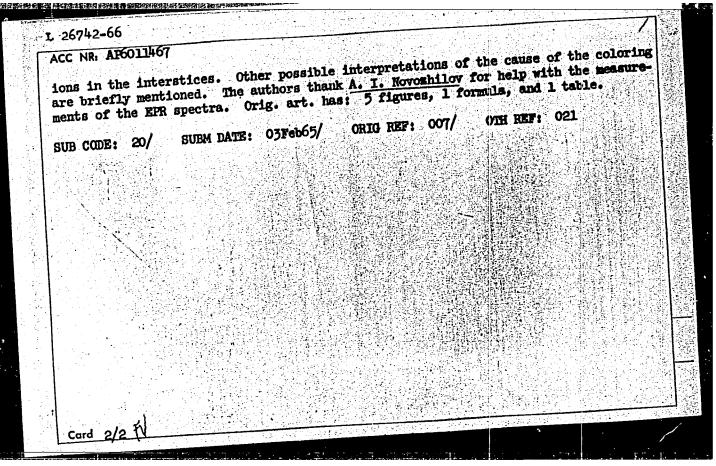
of Mn ^{er} a the forbi	are other tha idden transii	s. For all t an cubic. Th tions $\Delta m = \frac{1}{2}$	e ESR spe 1. Auth	ctrum of l ors take t	Mn ²⁺ in CdM this opport	oQ, shows linunity to than	es due to
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EVIT (m)/T/EWP(t) IJP(c) JD/JG ACC NR: AP6003799 SOURCE CODE: UR/0181/66/008/001/0247/0248 AUTHOR: Dernov-Pegarev, V. F.; Zaripov, M. M.; Samoylovich, M. I.; Stepanov, V. G. ORG: Kazan' State University im. V. I. Ul'yanov-Lenin (Kazanskiy gosudarstvennyy universitet) TITLE: EPR of Gd3+ in CdMoO4 SOURCE: Fizika tverdogo tela, v. 8. no. 1, 1966, 247-248 TOPIC TAGS: gadolinium, cadmium compound, molybdenum compound, electron paramagnetic resonance, single crystal, crystal lattice structure ABSTRACT: The authors investigated the EPR spectrum of Gd3+ in single-crystal CdMoO4 at a frequency ~37 Gcs and at room temperature. The single crystal was grown by the hydrothermal method and has a scheelite structure. One type of GdS+ ions was observed, situated in electric fields of tetragonal symmetry (z axis parallel to the c axis of the crystal). This indicates isomorphic substitution of Gd3+ for Gd2+. The parameters of the spin Hamiltonian are determined for this constant and are found to be in agreement with those obtained for other single crystals with scheelite structure (CaWO4, PbMoO4, and SrMoO4). The authors thank 0. I. Mar yakhina for computer processing of the experimental data. Orig. art. has: 1 figure and 1 formula. SUB CODE: .20/ SUBM DATE: 16Jul65/ ORIG REF: Card 1/1 UL OTH PEF: 001

L 42301-66 EWT(m)/T/EWP(t)/ETI IJP(c) JD/JG ACC NR. AP6026679 SOURCE CODE: UR/0181/66/008/008/2336/2339 AUTHOR: Meyl'man, M. L.; Samoylovich, M. I.; Potkin, L. I.; Sergeyeva, N. I. ORG: none TITLE: Electron paramagnetic resonance of gadolinium in single crystals of barium molybdate SOURCE: Fizika tverdogo tela, v. 8, no. 8, 1966, 2336-2339 TOPIC TAGS: electron paramagnetic resonance, crystal impurity, gadolinium, barium, molybdate, ionic crystal, single crystal property ABSTRACT: This article briefly describes methods of synthesizing single crystals of BaMoO4 and presents the results of investigating the electron paramagnetic resonance spectrum of impurity ions Gd3+ in these crystals at room temperature at a frequency of about 9.3 Gc. The parameters of the spin Hamiltonian describing the energy levels of the ions Gd³⁺ and the observed resonance spectrum are found. The data obtained are compared with results of investigating the EPR spectra of gadolinium in a series of geometrically similar molybdate crystals. An investigation of the isomorphism of ions Gd3+ in tetragonal molybdates revealed that the observed g-factors are low-anisotropic and identical (within limits of accuracy of the experiment) in all crystals of this group. The injection of ions Gd3+ occurs in the same manner, un-Card 1/2

like other ions of ing impurities of excess charge of tions on the electricant. has: 1 figure	the imposity to	ng Mb	o opecer unit	moreates	noniocal co	mpensation	of the
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26742-66 EWP(e)/EWT(m) WH ACC NR: AP6011467 SOURCE CODE: UR/0070/66/011/002/0236/0244 AUTHOR: Chentsova, L. G.; Tsinober, L. I.; Samoylovich, M. I. 60 ORG: Institute of Crystallography, AN SSSR (Institut kristallografii AN SSSR) 13 TITLE: Investigation of quartz with amethyst color SOURCE: Kristallografiya, v. 11, no. 2, 1966, 236-244 TOPIC TAGS: quartz, color center, optic property, electron paramagnetic resonance, crystal lattice defect, heat effect ABSTRACT: To obtain more information on the nature of the amethyst coloring of quartz, the authors investigated the morphology and certain optical and paramagnetic properties of artificial quartz with amethyst color. In addition, the EPR spectra of both synthetic and natural amethyst were determined. The crystal growth procedure was described in an earlier paper (Kristallografiya, v. 4, No. 4, 633-635, 1959). The amethyst coloring was produced by bombarding the synthetic crystals with x-rays from a TRTs-3 tube at 1500 r/sec. The coloring was usually complete after 20 minutes of exposure. The effect of heating the sample to different temperatures (350, 450, 510C) was tested and it was found that the defects causing the amethyst color centers change at temperatures above 500C. The role of different chemical elements entering in the crystal and their influence on the coloring is discussed. The results point to the conclusion that the amethyst color centers are probably Fe³⁺ ions replacing the Si47 ions in conjunction with various lattice defects, particularly alkaline-meta Card 1/2 WC: 548.0: 535.66



ACC NR: AP6037021 (A, N) SOURCE CODE: UR/0181/66/008/011/3445/3445

AUTHOR: Zaripov, M. M.; Potkin, L. I.; Samoylovich, M. I.; Stepanov, V. G.

ORG: Kazan' State University im. V. I. Ul'yanov-Lenin (Kazanskiy gosudar-stvennyy universitet)

TITLE: Electronic paramagnetic resonance of gadolinium 3 ions in barium tungstate

SOURCE: Fizika tverdogo tela, v. 8, no. 11, 1966, 3445

TOPIC TAGS: crystal, gadolinium, gadolinium ion, electronic paramagnetic resonance, scheelite, monocrystal, barium, tungstate, Elk quetrum, electric field

ABSTRACT: A study was made of the electron paramagnetic resonance spectrum in hydrothermally grown crystals containing $\sim 0.1\%$ Gd³⁺ ions. In BaWO₄, as in earlier studied bases, one type of Gd³⁺ ions was found, occurring in an electrical field of tetragonal symmetry. Measurements of the spectrum were made at room temperature at $\lambda \sim 8$ mm. Approximate values of the parameters of hamiltonian spin, determined by the method of the perturbation theory, were

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SAMOYLOVICH, M.L.; CHARNYY, A.M.

Generalized candidiasis as a complication of antibiotic therapy. Sov.med. 26 no.7:125-128 J1 '62. (MIRA 15:11)

l. Iz urologicheskogo otdeleniya mediko-sanitarnoy chasti (glavnyy vrach M.L.Samoylovich) ^Zhdanovskogo metallurgicheskogo zavoda imeni Il'icha.

(MONILIASIS) (ANTIBIOTICS—TOXICOLOGY)

WERETIN, A., inzhener; SAMOYLOVICH, N., inzhener.

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[Mining scraper conveyors] Zaboinye skrebkovye konveiery. Moskva, Nedra, 1964. 151 p. (MIRA 17:9)

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truda. Ped obshchei red. A.K.Pochenkova. Moskva, Gosgortekhizdat, 1961. 31 p. (MIRA 15:10)
(Donets Basin—Coal mines and mining)

SAMOYLOVICH, N.N.__

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1. Kafedra mikrobiologii (zav. N.V.Krupin) Sverdlovskogo meditsinskogo instituta.
(ANTIBIOTICS) (STAPHYLOCOCCUS)

SAMOYLOVICH, N.N.

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(SVERDLOVSK STAPHYLOCOCCUS)
(ANTIBIOTICS)

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Change in the susceptibility of pyogenic staphylococci to certain antibiotics. Kaz. med. zhur. no.4:60-62 J1-Ag '61. (MIRA 15:2)

1. Kafedra mikrobiologii (zav. - dotsent N.V.Krupin) Sverdlovskogo meditsinskogo instituta.
(STAPHYLOCOCCI) (ANTIBIOTICS)

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SOV/112-59-1-698

Translation from: Referativnyy zhurnal. Elektrotekhnika, 1959, Nr 1, pp 92-93 (USSR)

AUTHOR: Lyuter, R. A., Samoylovich, N. Ya., and Koldobskiy, M. I.

TITLE: Thermal Durability of Squirrel-Cage-Rotor AC Electric Machinery

PERIODICAL: Elektrosila, Nr 15, 1957, pp 29-42

ABSTRACT: Heating of induction and synchronous motors is examined under these conditions: starting, undervoltage operation, cutting-off one phase of the synchronous motor, overload up to the limit of steady-state stability, and excitation loss. Temperature rise in ${}^{O}C$ of the starting rotor winding during the starting period is $\Theta_{C} = C$; $(1 - e^{-t_{n}/T_{s}})$, where w is the average value of losses during starting per unit surface of bars in w/cm²; C = 20-100 degrees cm²/w is the heating constant of piece bars over the steel (it depends on the tightness of bar-steel contact), roughly $C \approx 50$; T_{s} is the time constant of bar heating for round copper bars; with C = 50, $T_{s} \approx 44$ d_C per sec, where d_C is

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Thermal Durability of Squirrel-Cage-Rotor AC Electric Machinery

the bar diameter in cm; $t_n = \frac{T_m M_H}{M_n K_u}$ is the starting time in seconds.

(Translator's note: Apparently, the first formula is incorrectly typeset in the Russian original.) The quantity of heat evolved in the rotor over the starting period with the initial slip s of the rotating rotor is

$$Q_p = \frac{s^2}{2} T_m M_H \frac{1}{K_u}$$
 in kw. sec, where

 $T_{\rm m} = \frac{27.4 \; {\rm GD}^2 \; (n_{\rm H}/100)^2}{M_{\rm H}}$ is the mechanical time constant in sec;

 $\frac{1}{K_{\rm u}} \approx \frac{1}{1 - M_{\rm c}/M_{\rm n}}$; $M_{\rm H}$ is the rated motor torque in synchronous kw; $n_{\rm h}$ is rated rpm; $M_{\rm n}$ and $M_{\rm c}$ are the starting torque and the resistance torque of the drive (in

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Thermal Durability of Squirrel-Cage-Rotor AC Electric Machinery synchronous kw), both being functions of the slip s in the general case; GD² is the flywheel effect of all spinning masses in ton · m². In simplified calculations, under the assumption of adiabatic heating, the temperature rise over the starting period of the rotor starting winding made from copper, brass, or bronze can be computed from the formula $\Theta = 1.28 \frac{t_n M_n}{G} k_k k_b$ in O C where G is the starting winding weight in kg; the coefficients $k_k = 0.80$ -0.90 and $k_b = 1$ for a single-cage winding; $k_k k_b = 0.60$ -0.75 for a double-cage motor whose upper cage weighs G. Assuming one hot starting and two cold startings with the rotor temperature rise of $\frac{\Theta_{max}}{k_k k_b} = 250^{\circ}$ C for single-cage induction motors and 300° C for synchronous and double-cage induction motors, the maximum starting time permissible by rotor heating

conditions will be $t_{n \text{ max}} = 195 \frac{G}{M_{n}}$ for single-cage induction motors and

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Thermal Durability of Squirrel-Cage-Rotor AC Electric Machinery

 $t_{n\ max}$ = 2.35 $\frac{G}{M_n}$ for synchronous and double-cage induction motors. On the basis of stator heating conditions, assuming a temperature rise of 35-40°C per one starting for class-A insulation windings and of 50-55°C for class-B insulation windings, the permissible starting time in seconds will be $t_{n\ max}^i = \frac{7,850}{j_{nm}^2}$ for class-A insulated windings and $t_{n\ max}^i = \frac{10,500}{j_{nm}^2}$ for

class-B insulated windings, where j_{2M} is the initial starting current density in amp/mm². Estimated values of permissible starting time are between 4 and 15 sec. In 3-kv synchronous and induction motors, the starting time is limited by rotor overheating, while in 6-kv induction motors, by stator overheating. With an undervoltage and motor operation within its stable range, the permissible time of operation with the voltage 1 - p as a fraction of the rated

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Thermal Durability of Squirrel-Cage-Rotor AC Electric Machinery

voltage is $t_p' = \frac{1.25}{I_p'^2 - 1} t_{1.5}$ in seconds, where $t_{1.5}$ is the standard

permitted 50%-current overload time (GOST 183-55 specifies 60 and 120 sec); the stator current in induction machines I'p as a fraction of the rated current is determined, for undervoltage conditions, from the current diagram for the specified active power; in the synchronous machines the field current, as a fraction of the rated current, for undervoltage conditions, should be determined from the vector diagram for the field current. In case of a considerable

undervoltage, the deceleration time of the motor is $T' = T_m \frac{M_H}{M_C - M_n/(1 - p^2 cdk)}$

Over the time required to attain the slip s the rotor-winding temperature rise

will be
$$\Theta'_{s} = 1.28 \frac{T' M_{ri} (1 - p)^{2} s^{2}}{G} k_{k} k_{b} \text{ in } {}^{o}C.$$

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Thermal Durability of Squirrel-Cage-Rotor AC Electric Machinery

The permissible speed drop, for undervoltage conditions, can be determined from this rule: over the deceleration time down to the slip s and over the subsequent speed-rise time on voltage recovery, the rotor-winding temperature rise should not exceed the specified value Θ_{max} in ^{O}C . Hence,

rise should not exceed the specified value
$$\Theta_{\text{max}}$$
 in ${}^{\circ}\text{C}$. Hence,
$$s = \sqrt{\frac{\Theta_{\text{max}} G}{1.28 \left[\text{T'} M_{\text{n}} (1-p)^2 + \text{T}_{\text{m}} M_{\text{h}} / k_{\text{u}}\right] k_{\text{k}} k_{\text{b}}}}$$

When the motor is operating with one phase cutoff, its stator current is equal to the line-to-line voltage divided by the sum of positive-phase-sequence and negative-phase-sequence impedances. The time of one-phase-off operation is largely determined by heating the rotor with negative-phase-sequence currents

 $I_2(b q/e)$. The quantity $A_2 = \int_0^t I_2^2 dt$, where t in seconds should not exceed

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Thermal Durability of Squirrel-Cage-Rotor AC Electric Machinery

120-150 for induction motors, about 60 for synchronous motors (except for 2-pole types), and about 30 for 2-pole synchronous motors. Permissible time of under-load operation of a synchronous motor on loss of field can be determined in a way similar to the undervoltage case, i.e., considering the value of stator or rotor current and the value of $t_{1.5}$.

Ye. Ya. K.

Card 7/7

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(Granes, derricks, etc.)

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[Construction gantry cranes; layout, operation and assembly] Stroitel-nye krany; ustroistvo, obsluzhivanie i montazh. Leningrad, Gos. izd-vo lit-ry po stroit. i arkhitekture, 1956. 190 p. (MIRA 9:12)

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nauk, red.; KOGAN, I.Ya., kand. tekhn. nauk, retsenzent;

BAZANOV, A.F., inzh., retsenzent; SAMOYLOVICH, P.A., kand.tekhn.

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GORBACHEV, A.I., inzh., retsenzent; DUKEL'SKIY, A.I., prof.,
doktor tekhn. nauk, red.; SKOMOROVSKIY, R.V., kand. tekhn.
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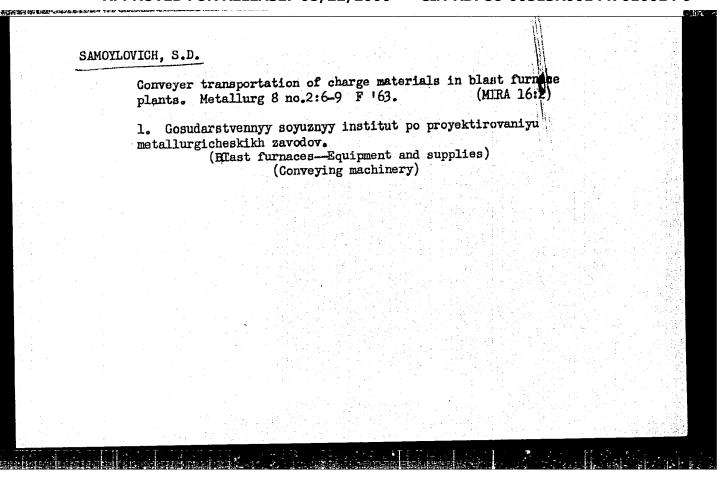
(Cranes, derricks, etc.)

		Investigation is not over Nauka i zhizn' 28 no.12:106 (MIRA 15:2) D'61. (Tsiolkovskii, Konstantin Eduardovich, 1857-1935)
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BODROV, I.; GUROV, S.; SAMOYLOVICH, S.; KHROMINENKOV, N.; YERSHOVA, I., red.; IVANOV, N., teknn. red.

[Our fellow countrymen and outstanding scientists and engineers]
Nashi zemliaki - vydaiushchiesia deiateli nauki i tekhniki; v
pomoshch' slushateliam narodnykh universitetov kul'tury. [By]
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SAMOYLOVICH, S.D., inzh.

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Je 163. (MIRA 16:7)

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(Materials handling)

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AUTHOR:

Sameylovich: S. R.

SOV/20-120-3-55/67

TITLE:

On the Problem of the Modification of the Vegetative Cover of the West Balkansin the Upper Tertiary Age (K voprosu ob izmeneniyakh rastitel nogo pokrova zapadnykh Balkan v verkhnetretichnoye: vremya)

PERIODICAL:

Doklady Akademii nauk SSSR, 1958, Vol. 120, Nr 3, pp. 637-640 (USSR)

ABSTRACT:

The palinological investigations concerning Upper Miocene and Pliocene sediments, which were conducted by the author in Albania in 1957, form the material of the present paper.

In spite of their sparseness (160 samples) the results are interesting as no larger fossil plant remains from the West of the Balkan peninsula (Balkanskiy poluostrov) have hitherto been investigated. Figure 1 shows the distribution of the pollen of various living forms and of characteristic families and species. Figure 2 shows the distribution of the pollen of various plant groups in the said sediments. The following dark conifers were to a considerable extent present in the Upper Miocene age: Tsuga, Abies, Picea, Cedrus cf. deodara, furthermore, mesophilic foliaceous trees:

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On the Problem of the Modification of the Vegetative Cover of the West Balkans in the Upper Tertiary Age

Fagus cf. orientalis, Quercus cf. robur, Carpinus cf. betulus, Ulaus cf.laevis and others. Pollen of evergreens and sclerophyll plants are very rare. In the Lower Pliocene age pollen of conifers are abundant, mainly of various Pinus species with admixtures of Cedrus of atlantica. No important rôle is now played by the dark conifers. Some horizons are rich in pollen of various Alnus species. A certain percentage of evergreens: Pistacia, Rhus, Oleacae are found. Herbaceous plants are rare. A rapid increase of the amount of rollen of herbaceous plants, is a particularity of the Astian stage of the Pliocene age, in particular of Chenopouraceae. The mentioned evergreens, in particular Oleacae altogether reach from 20 = 30 %. The east part of the country, which even then was mountainous, was covered by unbroken forests of the mentioned conifers and foliaceous trees and formed an association of the type of the recent "beech forest zone" or "fog forest zone". The Lower Miocene forests were accompanied by an undergrowth of Myrica, Pistaciae, common holly (Ilex) in the lower sites of the moutain slopes. Open treeless spaces probably were missing. Two group arrangements

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On the Problem of the Modification of the Vegetative Cover of the West Balkans in the Upper Tertiary Age

prevailed in the Plaisancian stage in West Albania . 1) Widely spread pine-cedar forests (Pinus and Cedrus) with intermingling leafy trees and 2) alder thickets (Alnus), which apparently were limited to river mouths and to shores of fresh waters. In the Astian stage (astiyskoye vremya) the associations became much more varied; 1) light conifers, mainly of pines and cedars; 2) a minor rôle was played by cak trees (Quercus), hornbeam (Carpinus), walnut (Juglans) and hazelnut (Corylus) and privet (Cornus) in the undergrowth; 3) typically mediterranean tree-shrub associations of oleacees, pistacees, coarsely leafed oak trees and other draught-resistant species were widely distributed. 4) Herbaceous plant cenoses of open spaces (of the littoral zones) which had spread at the foot after the regression of the Plaisancian Sea. The spectrum of West Albania is rather similar to the recent machia of the country, where are 2 figures and 8 references, 3 of which are Soviet.

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On the Problem of the Modification of the Vegetative Cover of the West Balkans in the Upper Tertiary Age

ASSOCIATION: Vsescyuznyy nauchno-issledovatel skiy geologorazvedcchnyy

institut

(All-Union Scientific Research Institute for Geologica)

Prospecting)

PRESENTED: March 17, 1958, by V. N. Sukachev, Member, Academy of

Sciences, USSR

SUBMITTED: March 15, 1958

1. Paleoecology--USSR 2. Geological time--Determination

Card 4/4

SAMOYLOVICH, S.R., nauchryy red.; MCHEDLISHVILI, N.D., nauchnyy red.; RUSAKOVA, L.Ya., vedushohiy red.; YASHCHURZHINSKAYA, A.B., tekhn.red.

[Pollen and spores of Western Siberia; Jurassic and Paleocene]
Pyl'tsa i spory Zapadnoi Sibiri; IUra-paleotsen. Leningrad,
Gos.nauchno-tekhn.izd-ve neft.i gorno-toplivnoi lit-ry
Leningr.otd.-nie, 1961. 657 p. (Leningrad. Vsesoiuznyi
neftianoi nauchno-issledovatel'skii geologorazvedochnyi institut.
Trudy, no.177). (MIRA 1534)

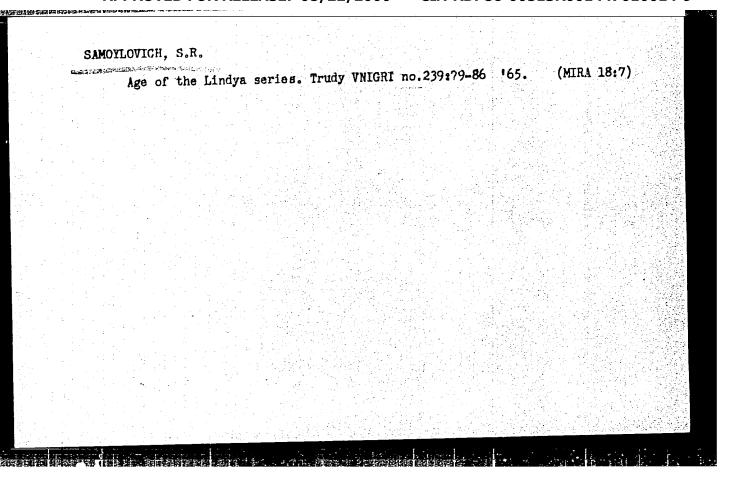
l. Vsesoyuznyy neftyanoy nauchno-isaledovatel skiy geologorazvedeochnyy institut (for Samoylovica, icheullanvili). (West Siberian Plain-Palynology)

SAMOYLOVICH, S.R., MCHEDLISHVILI, N.D.

"Common floras of Meszoic and Cenozoic deposits from western Siberia and Australia."

Report to be submitted for the Intl. Conf. on Palynology Tucson, Arizona. 23-27 Apr '62.

SAMOYLOVICH, All-Union Petroleum Scientific Research Geological Prospecting Inst.



MCHEDLISHVILI, N.D.; SAMOYLOVICH, S.R.

Relations between the floras of the Morthern and Southern Hemispheres in the Mesozoic and Cenozoic. Trudy VNIGRI no.239:35-37 '65.

(MIRA 18:7)

YEFREMOV, M.G.; TER-GALUSTOV, S.A.; SAMOYLOVICH, S.Ya., nauchnyy redaktor; TOKAR, A.M., tekhnicheskiy redaktor

[Boring and cementing with clay solution for deep-set supports]
Opyt bureniis i betonirovaniis pod glinistym rastvorom dlia opor
glubokogo zalozheniis. Moskva, Gos. izd-ve lit-ry po stroitel'stvu
i arkhitekture, 1953. 50 p. [Microfilm] (MLRA 7:10)
(Foundations) (Boring)

LYZLOV, Semen L'vovich; SAMOYLOVICH, T.A., red.; KLAPTSOVA, T.F., tekhn. red.

[New developments in invention and innovation in the merchant marine] Novoe v rabote po izobretatel stvu i ratsionalizatsii na morskom flote. Moskva, Izd-vo "Morskoi transport," 1962. 49 p. (MIRA 15:9)

(Merchant marine-Technological innovations)

KOYTIKH, Boris L'vovich; MITROKHIN, Gleb Aleksandrovich; NEMTSEV,
Anatoliy Viktorovich. Prinimali uchastiye: ABRAMOV, A.G.;
LEMEKHOV, L.K.; SAMOYLOVICH, T.A., red.; KLAPTSOVA, T.F.,
tekhn. red.

[New welding processes in ship repairs]Novye tekhnologicheskie protsessy svarki v sudoremonte. Moskva, Izd-vo "Morskoi
transport," 1962. 55 p.
(Ships-Maintenance and repair) (Welding)

RAKHOVETSKIY, Anatoliy Nikolayevich; BUKHANOVSKIY, I.1., kand. tekhn. nauk, retsenzent; SAMOYLOVICH, T.A., red.; TIKHONOVA, Ye.A., tekhn. red.

[Radar observations in poor visibility]Radiolokatsionnoe nabliudenie v usloviiakh plokhoi vidimosti. Moskva, Izd-vo
"Morskoi transport," 1962. 96 p. (MIRA 15:11)
(Radar in navigation)
(Collisions at sea--Prevention)

KOMANDIN, Arnol'd Grigor'yevich; WMOYLQVICI, T.A., red.

[Operation of a MAK-FV-4 freon refrigeration plant]

[Ekspluatatsila freon ol kholodil'noi ustanovki marki

Ekspluatatsila freon ol kransport, 1964. 51 p.

MAK-FV-4. Moskva, Izd-vo "Transport," (MIRA 17:6)

TARABRIN, van Vasil'yevich; KAZAVCHINSKIY, Ya.Z., prof., doktor ekhn. nauk, retsenzent; ZAGORUYKO, V.A., inzh., retsenzent; SAMOYLOVICH, T.A., red.

[Ship air-conditioning systems] Swlovye ustanovki konditionirovaniia vozdukha. Moskva, Transport, 1964. 161 p. (MIRA 17:11)

KORSHUNOV, Lev Petrovich; SAMOYLOVICH, T.A., red.

[Main transmissions on ships] Glavnye sudovye peredachi.
Moskva, Transport, 1964. 183 p. (MIRA 17:12)

MALAKHOV, Nikolay Dmitriyevich; FOVEROV, Konstantin Iosifovich;
YATSENKO, Velentin Sememovich; TUMM, I.D., retsenment;
SAMOYLOVICH, T.A., red.

[Operation of marine power plants] Tekhnicheskaia ekspluatatsiia sudovykh silovykh ustanovok. Moskva, Transport, 1964. 346 p. (MIRA 17:12)

KATERNOGA, M. [Katernoha, M.], kand.arkhitektury; SAMOYLOVICH, V.

(Samoilovych, V.], kand.arkhitektury; KOLOMIYETS, M. [Kolomiiets's, M.], kand.arkhitektury.

New standard plans for collective farm houses. Prock. i bud. 1 no.1:37-39 0 '59.

(Ukraine—Farmhouses)

SAMOYLOVICH, V. [Samoilovych, V.], kand.arkhitektury; KHOKHOL, Yu., kand.arkhitektury

House construction in the Baltic Sea Region. Sil'.bud. 13 no.5:21-23 My '63. (MIRA 17:3)

88711

s/076/61/035/001/015/022 B004/B060

11.1120

Samoylovich, V. G. and Filippov, Yu. V.

TITLE:

AUTHORS:

Electrical theory of ozonizers. VIII. Effect of frequency

upon the electrical characteristics of ozonizers

Zhurnal fizicheskoy khimii, v. 35, no. 1, 1961, 201-205 PERIODICAL:

TEXT: The problem of increasing the power of ozonizers by an increase of frequency is dealt with here. A report is given of the effect of frequencies between 300 and 3000 cps upon the course of the voltampere characteristics $I_m = f(v_0)$ for an ozonizer with a 1-mm discharge gap.

 $(I_{\underline{m}} = I_{\underline{mean}})$. The measurements were made on electrodes cooled down to 25°C, 600 mm Hg, the throughput rate of 02 being 100 1/h. The frequency was obtained by means of a 37-10 (ZG-10) sound generator with a TY-5 (TU-5) amplifier. Fig. 1 shows the v-a characteristics for the various frequencies. It was noted that a change of frequency did not cause any change of voltage V_g in the discharge gap. The critical voltage V_{cr} also Card 1/4

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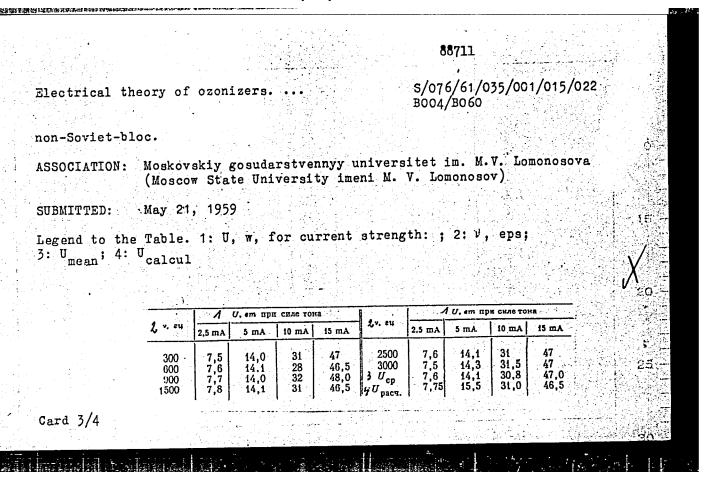
Electrical theory of ozonizers. ...

S/076/61/035/001/015/022 B004/B060

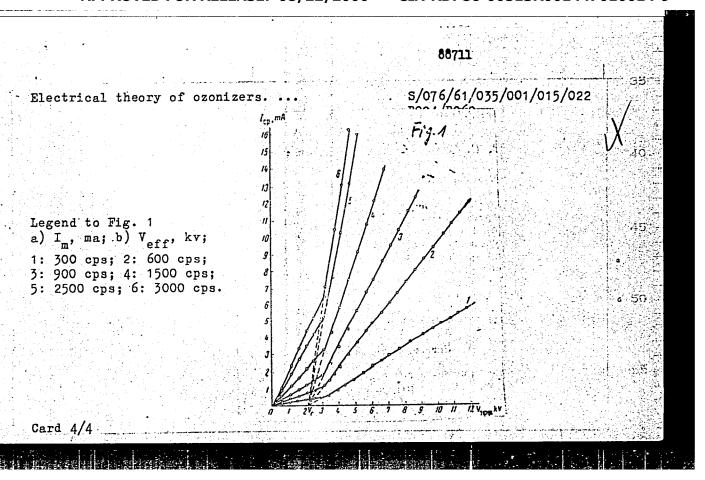
remained constant. According to Ref. 4 the v-a characteristics are described by the equations $I_m = (2/\pi) V_o C_{total} \omega$ for $V_o \leqslant \sqrt{2} V_{cr}$ (1); $I_m = (2/\pi) (V_o - V_g) C_6 \omega$ for $V_o \geqslant \sqrt{2} V_{cr}$ (2). [Abstracter's Note: C_6 is not defined]. In both cases, the course of the curves as a function of frequency was found to fit the theory. The critical current $I_{cr} = (2/\pi) C_{total} V_{cr} \omega$ is also a linear function of frequency. As regards the effective energy U of the ozonizer it is noted that measurements must be made under conditions, where U remains constant. From $U = V_g (I_m - I_{cr})$ (5) and $I_m - I_{cr} = I_a$, the active current, this was observed to be the case, when $I_a = \text{const.}$ As is shown by the table, this has been confirmed by experiments. For $I_a = \text{const.}$ U does not depend on the frequency. The linear relationship between $1/\eta$ and $1/\omega$ was confirmed experimentally for the power coefficient I_1 in accordance with the theoretical findings. There are 6 figures, 1 table, and 7 references: 6 Soviet-bloc and 1 Card 2/4

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S/189/62/000/001/001/002 D227/D302

//.//20 authors:

Samoylovich, V.G. and Filippov, Yu. V.

TITLE:

Mechanism and kinetics of ozone synthesis in the electric

discharge

PERIODICAL: Moscow, Universitet. Vestnik. Seriya II. Khimiya, no. 1,

1962, 44-48

TEXT: In the present work the authors studied the effect of oxygen pressure and strength of current on the synthesis of ozone in a circulating system. It was first confirmed that the equilibrium ozone concentration is independent of current. The effect of pressure and rapid decrease of ozone concentration at low pressure are considered and expressions for the equilibrium ozone concentrations are given, showing that the ozone concentration is (a) independent of pressure when the latter is high and (b) proportional to the 4th power of the total pressure when the latter is low. The kinetics of ozone synthesis are represented by a first order reaction and the decomposition of ozone by Eq. (3a)

Card 1/2

S/189/62/000/001/001/002 D227/D302

Mechanism and kinetics of ...

$$\frac{\begin{bmatrix} 0_3 \end{bmatrix}}{\begin{bmatrix} 0_2 \end{bmatrix}} \% = 100 \frac{K_0}{K_1^0} (1 - \xi^{-K_1^0 t}) \qquad (3_1 a) \quad \text{where } K_0 = \text{constant of}$$

formation and K⁰ = constant of 0 decomposition. On the basis off the proposed reaction mechanism, the kinetics of ozone synthesis are described and discussed. There are 5 figures and 3 references, 2 Soviet-bloc and 1 non-Soviet-bloc. The reference to the English-language publication reads as follows: Devins, J. Electrochem. Soc. 103, no. 8, 460 (1956).

SUBMITTED: January 3, 1961

Card 2/2

s/189/62/000/001/002/002 D227/D302

AUTHORS:

Popovich, M.P., Samoylovich, V.G. and El'tsefon, B.S.

TITLE:

PERIODICAL:

A study of the silent discharge in oxygen Moscow, Universitet. Vestnik, Seria II. Khimiya, no. 1,

1962, 80

TEXT: The emission spectrum of a silent discharge in oxygen at atmospheric pressure was observed in the visible region. The usual silent discharge apparatus was used with the exception of the ozonizer which consisted of a glass cylinder with windows of optical quartz, a cooling system and flat, glass electrodes separated by 1 mm. Frequency of the applied potential was 50 c/s, the voltage 10 Kv and the current μ_{a} . The spectrum was recorded with the aid of an NC7 -28 (ISP-28) instrument, on "Ramman Platten" plates, with an exposure of 45 hrs. and an 0.008 mm slit. Spark spectra of iron were photographed on the same plate for the sake of comparison. The silent discharge spectrum thus obtained extended from 4707 to 2952 A.U. Three ozone bands at 4277, 3099, 3090 AU were found, as well as 33 bands belonging to the second Card 1/2

s/189/62/000/001/002/002

A study of the silent discharge ...

D227/D302

positive nitrogen system.

ASSOCIATION: Kafedra fizicheskoy khimii (Department of Physical Chemistry)

SUBMITTED: November 27, 1961

Card 2/2

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s/076/62/036/005/004/013
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                                                                                                                                                                                                                                                                                       B101/B110
                                                                               Samoylovich, V. G., Vendillo, V. P., and Filippov, Yu. V.
                                                                                  Electrosynthesis of ozone. V. Synthesis of ozone in a flow
11.1120
                                                                                      Zhurnal fizicheskoy khimii, v. 36, no. 5, 1962, 989 - 992
  AUTHORS:
                                                                                    under reduced pressure
             TEXT: To clarify the kinetics of ozone formation, the synthesis of ozone
              TEAT: TO CHARLLY the kinetics of ozone formation, the synthesis of ozone was studied at reduced pressures in a device described earlier (Zavodske was studied at reduced pressures in a behini xx oxen for the synthesis of ozone lormation, the synthesis of ozone lormation of ozone lormation, the synthesis of ozone lormation ozone lormation of ozone lormation ozone lormation ozone lormat
                 was studied at reduced pressures in a device described earlier (Zavodsk. Three laboratoriya, 25, 1401, 1959; Zh. fiz. khimii, 33, 2358, 1959). (1); 2.0 (2), laboratoriya, 25, 1401, 1959; Zh. fiz. mm, discharge space 0.5 laboratoriya, 25, mm, diameter 35 mm, discharge space 2 being 44.4 ma ozonizers, length 250 mm, the amperage in ozonizers 1 and 2 22.50C. freand 4.0 mm (3) were used, the amperage with water at 22.50C. and in ozonizer 3 being 30 ma. the electrodes with water at 20.50C.
       TITLE:
           PERIODICAL:
                       and 4.0 mm (2) were used, the amperage in ozonizers 1 and 2 peing 44.4 ma (2) were used, the amperage in ozonizers 1 and 22.50C, fream in ozonizer 3 being 30 ma, the electrodes with water at 22.50C, and in ozonizer 3 being 30 ma, the electrodes with water at 22.50C, fream in ozonizer 3 being 30 ma, the electrodes with water at 22.50C, fream in ozonizer 3 being 30 ma, the electrodes with water at 22.50C, fream in ozonizer 3 being 30 ma, the electrodes with water at 22.50C, fream in ozonizer 3 being 30 ma, the electrodes with water at 22.50C, fream in ozonizer 3 being 30 ma, the electrodes with water at 22.50C, fream in ozonizer 3 being 30 ma, the electrodes with water at 22.50C, fream in ozonizer 3 being 30 ma, the electrodes with water at 22.50C, fream in ozonizer 3 being 30 ma, the electrodes with water at 22.50C, fream in ozonizer 3 being 30 ma, the electrodes with water at 22.50C, fream in ozonizer 3 being 30 ma, the electrodes with water at 22.50C, fream in ozonizer 3 being 30 ma, the electrodes with water at 22.50C, fream in ozonizer 3 being 30 ma, the electrodes with water at 22.50C, fream in ozonizer 3 being 30 ma, the electrodes with water at 22.50C, fream in ozonizer 3 being 30 ma, the electrodes with water at 22.50C, fream in ozonizer 3 being 30 ma, the electrodes with water at 22.50C, fream in ozonizer 3 being 30 ma, the electrodes with water at 22.50C, fream in ozonizer 3 being 30 ma, the electrodes with a constant at 22.50C, fream in ozonizer 3 being 30 ma, the electrodes with a constant at 22.50C, fream in ozonizer 3 being 30 ma, the electrodes with a constant at 22.50C, fream in ozonizer 3 being 30 ma, the electrodes with a constant at 22.50C, fream in ozonizer 3 being 30 ma, the electrodes with a constant at 22.50C, fream in ozonizer 3 being 30 ma, the electrodes with a constant at 22.50C, fream in ozonizer 3 being 30 ma, the electrodes with a constant at 22.50C, fream in ozonizer 3 being 30 ma, the electrodes with a constant at 22.50C, fream in ozonizer 3 being 30 ma, the electrodes with a cons
                         volume) versus u/v showed increasingly distinct maxima (Fig. 1). It is discussed whether these maxima are caused (a) by decomposition of ozone
                              volume) versus u/v snowed increasingly distinct maxima (Fig. 1). It is discussed whether these maxima are caused (a) by decomposition of his hardware the ozonizer on counter-current diffusion of ozone
                                discussed whether these maxima are caused (a) by decomposition of (b) by before the ozonizer on counter-current diffusion of ozone, or (b) by decomposition of ozone of the the ozonizer
                                   perore the ozonizer on counter-current chirusion of ozone, or (b) by decomposition of ozone after the ozonizer. The case (a) is possible since
                                        Card 1/2
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Electrosynthesis of ozone...

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PV max = const. has been found experimentally. For the case (b), PV max = const. has also been found on the basis of the equation $dx/dt = k_1^{\dagger}x$ (x = 0, concentration, t = time, k_1^{\dagger} = decomposition constant of 0, after the ozonizer). It is assumed that in practice the two processes are combined. There are 3 figures and 2 tables.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova (Moscow State University imeni M. V. Lomonosov)

SUBMITTED: July 20, 1960

Fig. 1. Ozone concentration versus u/V for ozonizer with 0.5 mm discharge space. (1) 780 mm Hg; (2) 620 mm Hg; (3) 440 mm Hg; (4) 320 mm Hg; (5) 160 mm Hg.

Legend: Ordinate 03, % by volume.

Card 2/2

03,04%

Rotational temperature in the electric discharge in an Vost. Mosk. w. Ser. 2: khim. 19 no. 4:30-52 Jl-Ag 64.	하고 하는 이 이 얼마나 뭐야 하셨다.
1. Kafedra fizisheskov khimii Moskovskogo universiteta.	(MIRA 18:8)

L 24789-65 EPF(c)/EPR/EWT(m)/T Pr-4/Ps-4 RPL RWH/WW/JW ACCESSION NR: AP4049616 S/0076/64/038/011/2712/2714

AUTHOR: Samoylovich, V. G.; Filippov, Yu. V.

TITLE: Electrosynthesis of ozone. X. The influence of the current frequency

SOURCE: Zhurnal fizicheskoy khimii, v. 38, no. 11, 1964, 2712-2714

TOPIC TAGS: ozone electrosynthesis, frequency effect, ozone generator

ABSTRACT: The increase of the frequency of the electric current was considered to be the only means for a practically unlimited increase of the production of ozone generators of a given size. In the work of other authors who studied the effect of frequency on the ozone synthesis, the discharge power, which is proportional to the frequency, was also changed. The present authors have investigated the effect of frequency only, by maintaining the power constant. Their results show that under these conditions, the frequency in the range from 300 to 3000 Hg has no effect on the synthesis of ozone. Orig. art. has: 2 figures and 1 table

Card 1/2

L 24789-65

ACCESSION NR: AP4049616

ASSOCIATION: Moskovskiy gosudarstvenny*y universitet im. M. V. Lomonosova

(Moscow State University)

SUBMITTED: 30Feb63

ENCL: 00

SUB CODE: IC, GC NO REF SOV: 005

Mean energy and distribution function of electrors in inert gasos. Veet. Mosk. un. Ser. 2:Khim. 20 no. 5:2-12 3-0 '65.

(MRA 18:12)

1. Kafedra fizicheskoy khimii Moskovskogo gosudarstvennogo universiteta. Submitted Sept. 21, 1964.

EWT(m)/EWP(t)/ETI. L 35809-66 SOURCE CODE: UR/0076/65/039/012/3092/3095 ACC NR: AP6014899 AUTHOR: Samoylovich, V. G.; Popovich, M. P.; Yemel'yanov, Yu. M.; 60 Filippov, Yu. V. ORG: Moscow State University im. M. V. Lomonosov (Moskovskiy B gosudarstvennyy universitet) TITLE: Electric theory of ozonizers (XI. Discharge in helium at various pressures and discharge gaps SOURCE: Zhurnal fizicheskoy khimii, v. 39, no. 12, 1965, 3092-3095 TOPIC TAGS: ozone, electric theory, helium, circuit design, gas discharge ABSTRACT: The equipment used in the experiments (illustrated in a figure) consisted basically of an upper aluminum electrode with a dismeter of 15 mm and a height of 50 mm and a lower sluminum electrode with a dismeter of 10 mm, pressed into a base made of organic glass. The article gives also a diagram of the electric circuit. Using this equipment, measurements were made by the oscillographic method of the combustion pressure during a discharge in helium. Measurements of the combustion pressure in helium were made at gas pressures of 750, 600, 400, 200, 100, and 50 mm Hg for discharge gaps of 0.45, 1.0, 2.0, 3.0, UDC: 541.13 Card 1/2

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L 34377-66 EWT(m)/EWP(t)/ETI IJP(c) JD/WW/JW

ACC NR: AP6010743

SOURCE CODE: UR/0076/66/040/003/0531/0536

AUTHOR: Samoylovich, V. G.; Popovich, M. P.; Yemel'yanov, Yu. M.; Filippov, Yu. V.

ORG: Moscow State University im. M. V. Lomonosov (Moskovskiy gosudarstvennyy universitet)

TITLE: The electrical theory of ozonizers. XII. Burining voltage in oxygen-ozone mixtures

SOURCE: Zhurnal fizicheskoy khimii, v. 40, no. 3, 1966, 531-536

TOPIC TAGS: electric theory, gas discharge, oxygen, ozone

ABSTRACT: The authors used a flat ozonizer (discharger) to measure the burning voltage of a discharge in oxygen and oxygen-ozone mixtures at various gas pressures and with various discharge intervals. The value of the field applied to the oxygen and the oxygen-ozone mixtures is determined. In order to avoid any gradient in ozone concentration, the ozone was produced externally and introduced. Discharge gaps from 0.1 to 4.0 mm were used, with pressures from 50 to 750 mm Hg. The ozone concentration was 0.65 to 7.0% by volume. The ratio of the elemental reaction constants of ozone and oxygen upon collision with electrons was determined. It was established by the experiments that the curve of the burning

Card 1/2

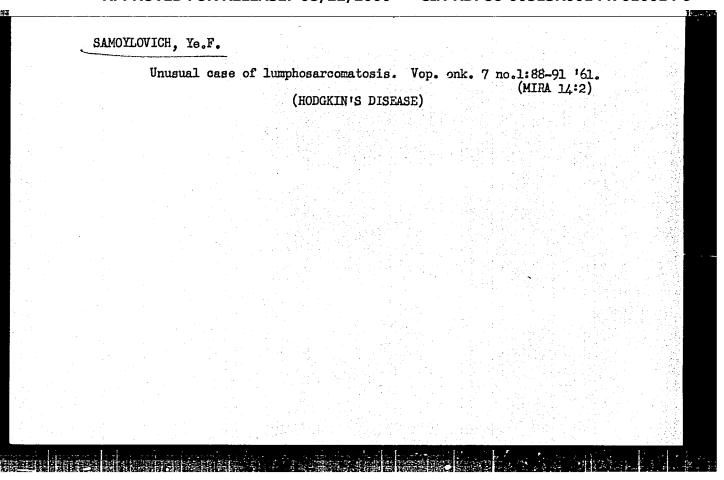
UDC: 541.13

voltage as a function of ozone concentration is linear. Orig. art. has: 6 tables, 4 and 4 formulas. SUB CODE: 07,20/ SUBM DATE: 07Dec64/ ORIG REF: 006/ OTH REF: 005	
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SAMOYLOVICH, Viktor Petrovich; KHOKHOL, Yuriy Fedorovich; GONCHAR, A.S., red.; BABIL CHANOVA, G.A., tekhn. red. [[Foundations, walls, partitions, and ceilings in Apartment houses with few stories] Fundamenty, steny, peregorodki i perekrytila v maloetazhnykh zhilykh domakh. Kiev, Gos. izd-vo lit-ry po stroit. i arkhit. USSR, 1961. 120 p. (MIRA 14:9)

(Apartment houses)



SAMOYLOVICH, Ye.N.

Gall midge injurious to black current shoots in Leningrad Province. Ent.obox. 34:129-130 '55. (MLRA 9:5)

1. Institut prikladnoy zoologii i fitopatologii, Leningrad. (Leningrad Province--Gall gnats) (Currants--Diseases and pests)